FIG. 1

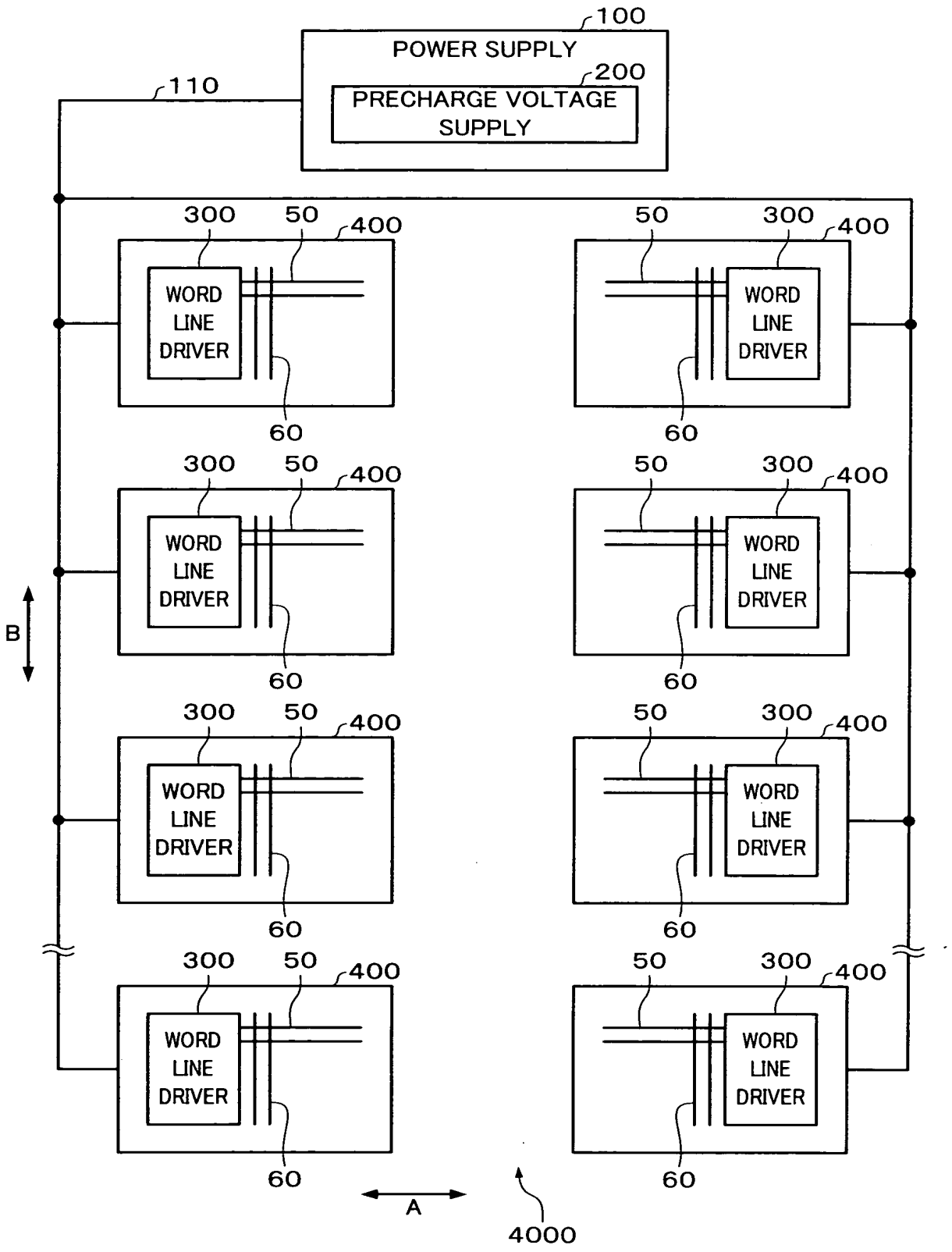

100
POWER SUPPLY
200
PRECHARGE VOLTAGE SUPPLY
110
300
50
400
WORD LINE DRIVER
60
B
A
4000

FIG. 2

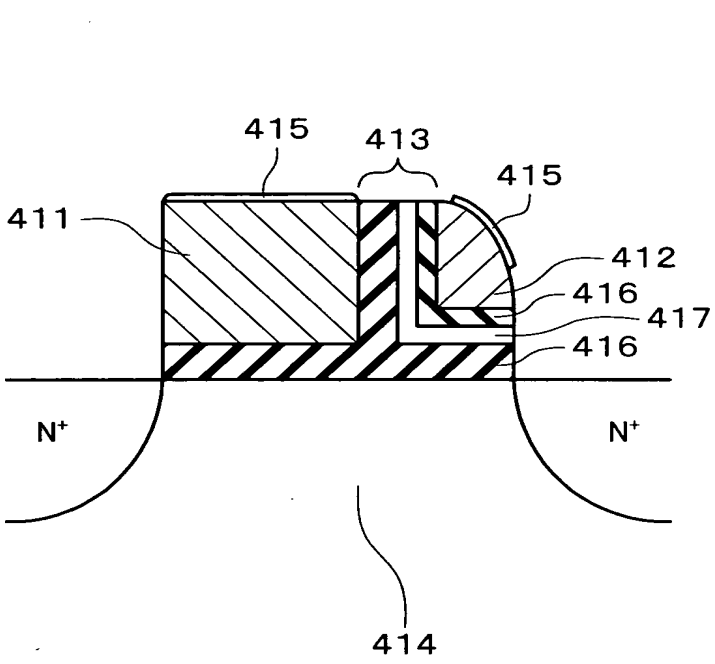

410
415
413
415
411
412
416
417
416
N+
N+
414

FIG. 3

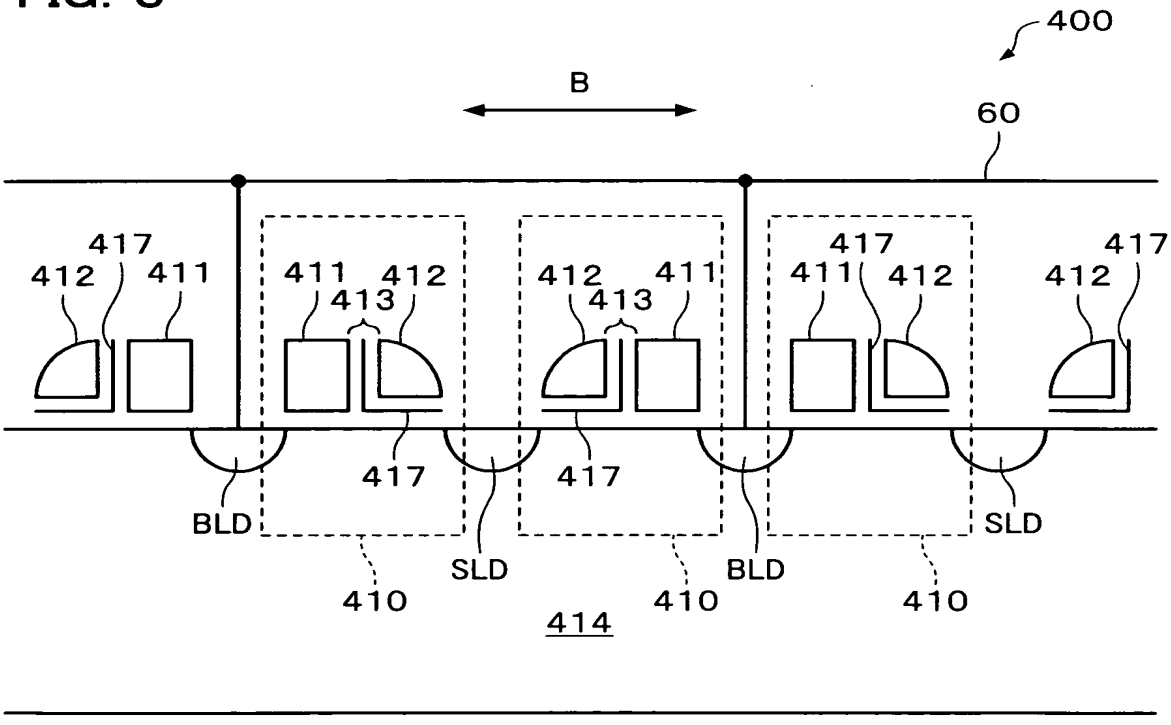

400
B
60
417
412
411
411
412
413
412
411
413
417
411
412
417
412
417
417
BLD
SLD
BLD
SLD
410
410
410
414

FIG. 4

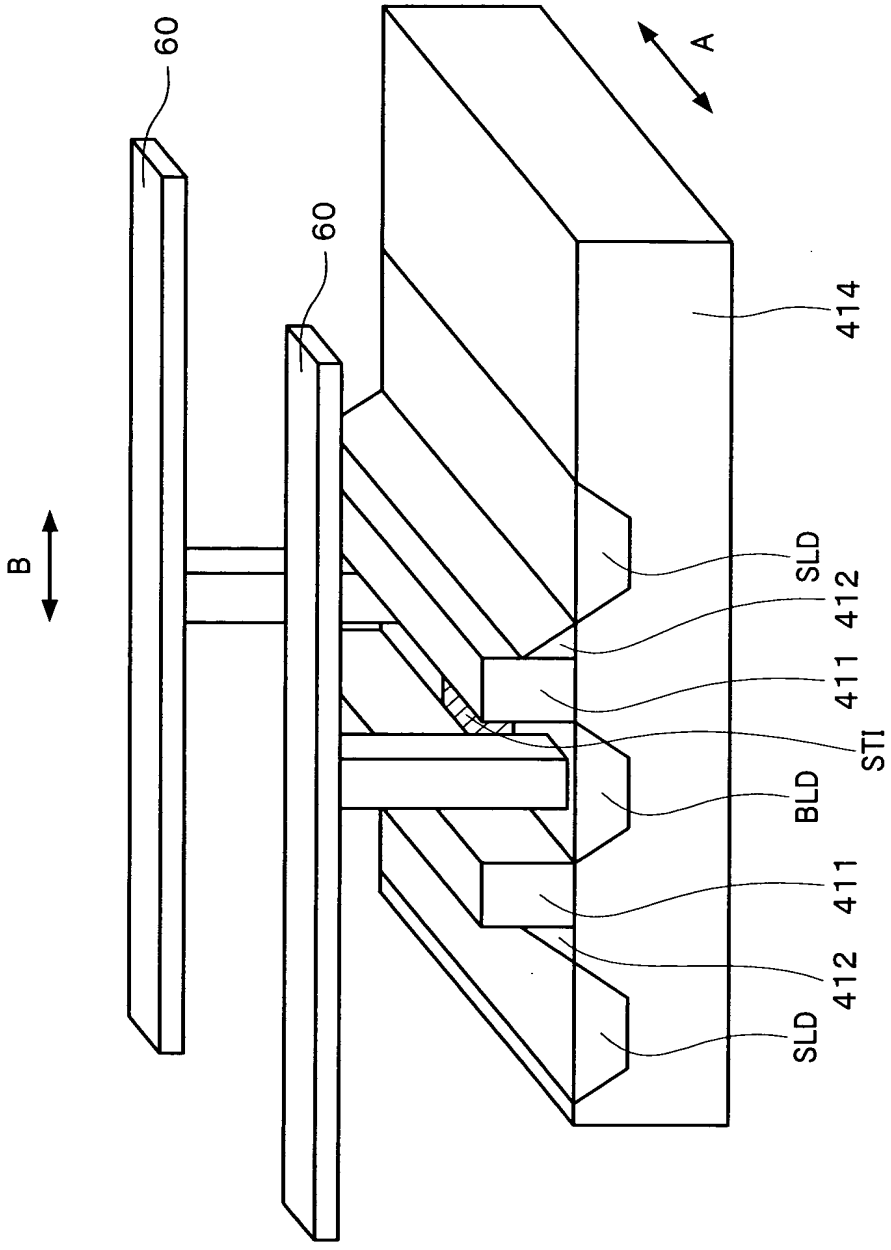


FIG. 5

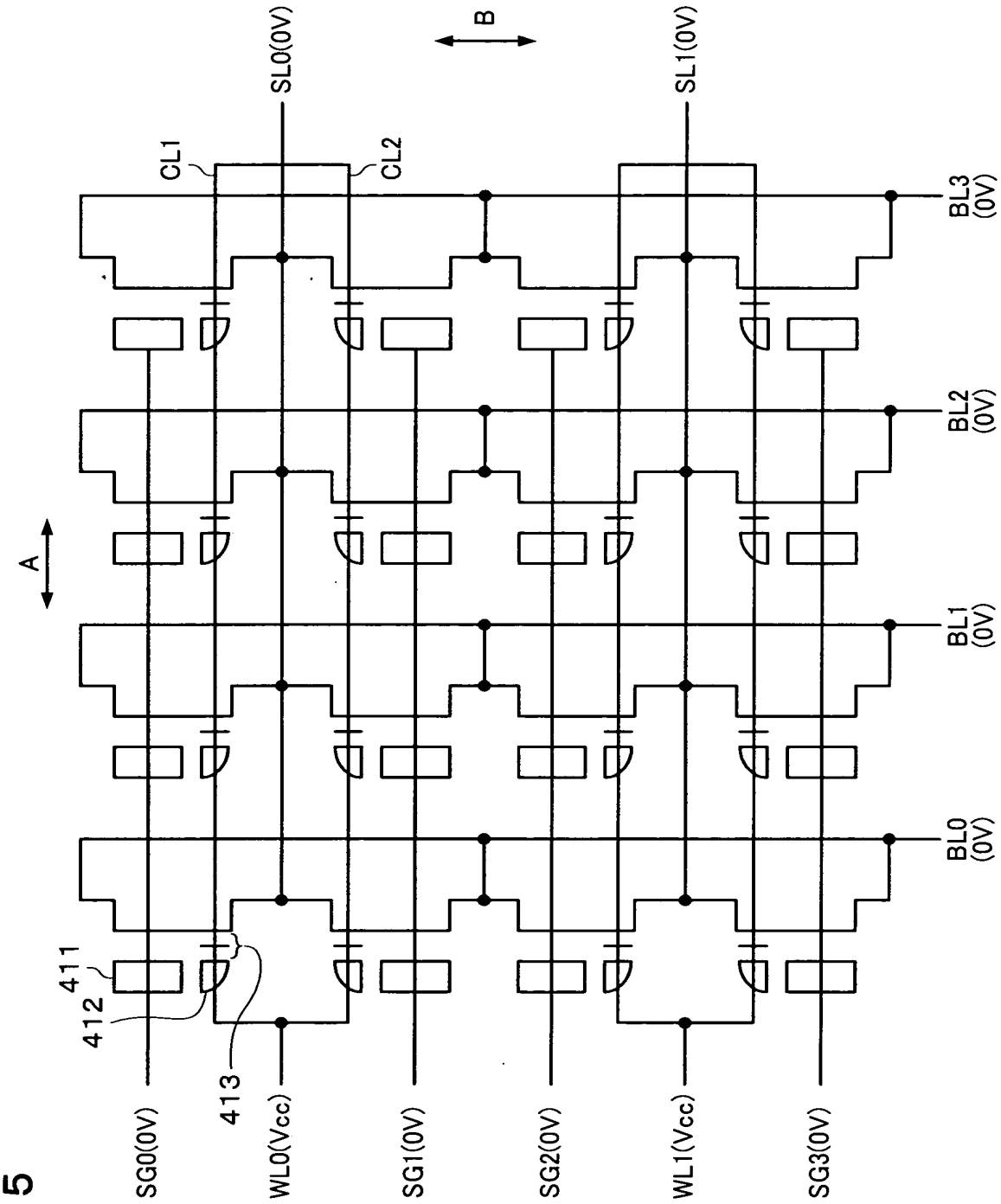

SG0(0V)
WL0(Vcc)
SG1(0V)
SG2(0V)
WL1(Vcc)
SG3(0V)
SL0(0V)
SL1(0V)
BL0 (0V)
BL1 (0V)
BL2 (0V)
BL3 (0V)
CL1
CL2
411
412
413
A
B

FIG. 6

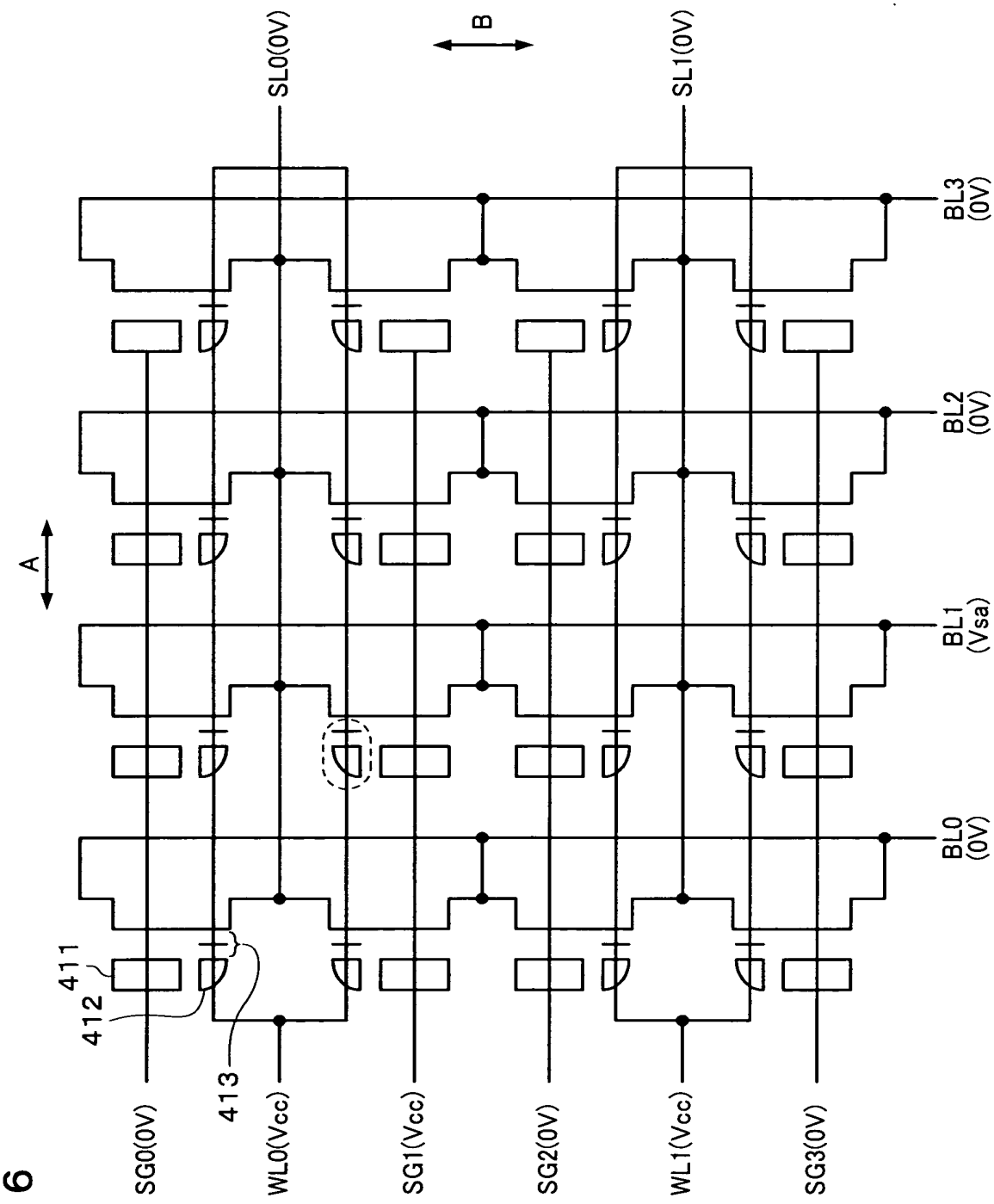

A
B
SL0(0V)
SL1(0V)
BL3 (0V)
BL2 (0V)
BL1 (Vsa)
BL0 (0V)
411
412
413
SG0(0V)
WL0(Vcc)
SG1(Vcc)
SG2(0V)
WL1(Vcc)
SG3(0V)

FIG. 7

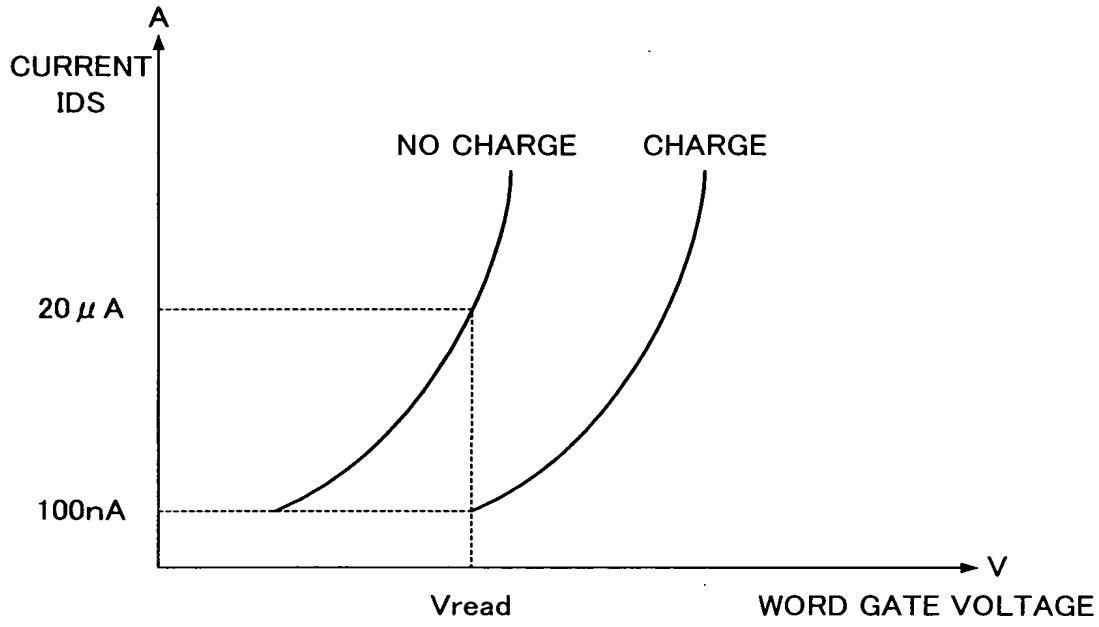

A
CURRENT
IDS
NO CHARGE
CHARGE
20 μ A
100nA
V
Vread
WORD GATE VOLTAGE

FIG. 8

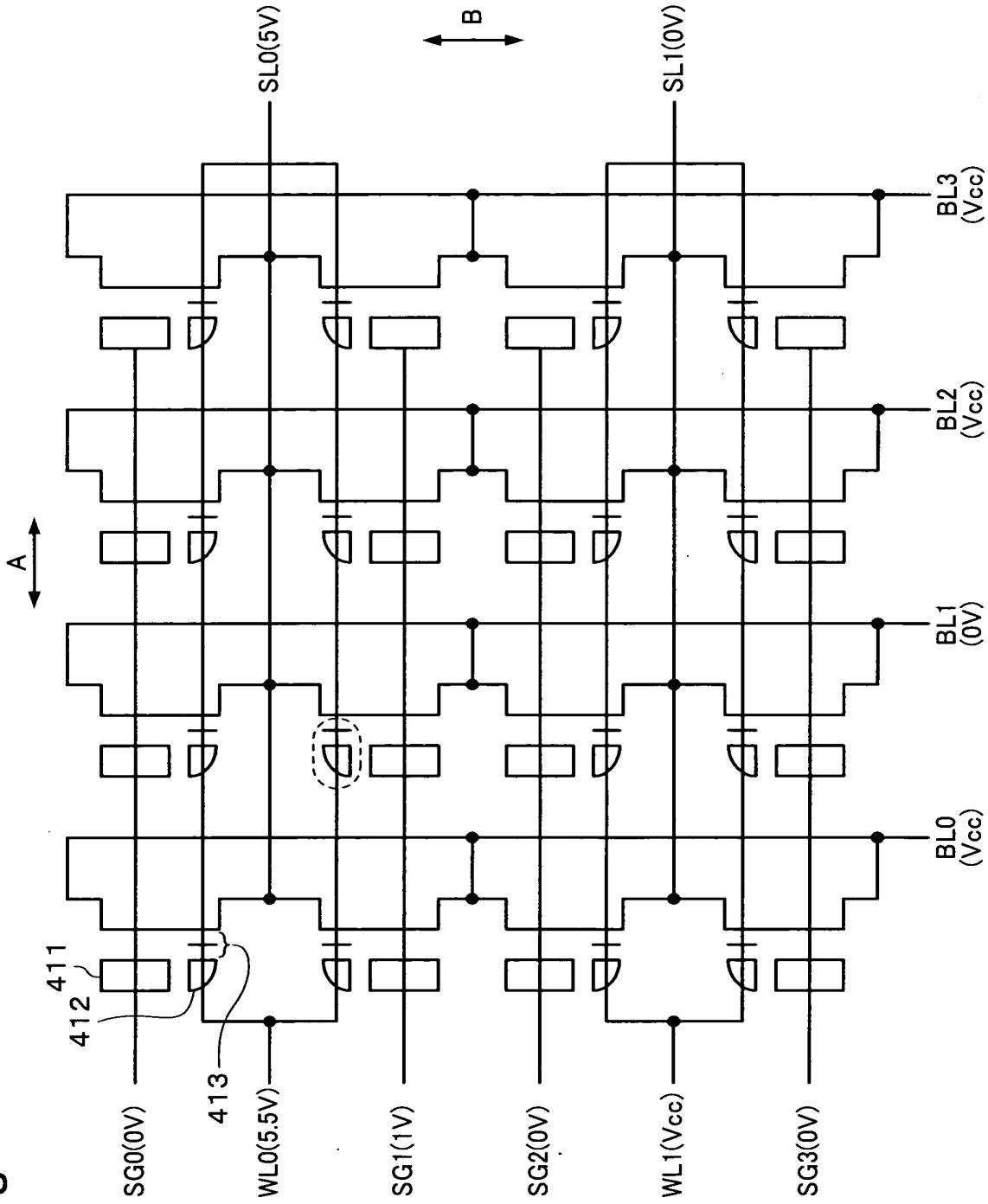

SL0(5V)
SL1(0V)
B
A
BL3 (Vcc)
BL2 (Vcc)
BL1 (0V)
BL0 (Vcc)
411
412
413
SG0(0V)
WL0(5.5V)
SG1(1V)
SG2(0V)
WL1(Vcc)
SG3(0V)

FIG. 9

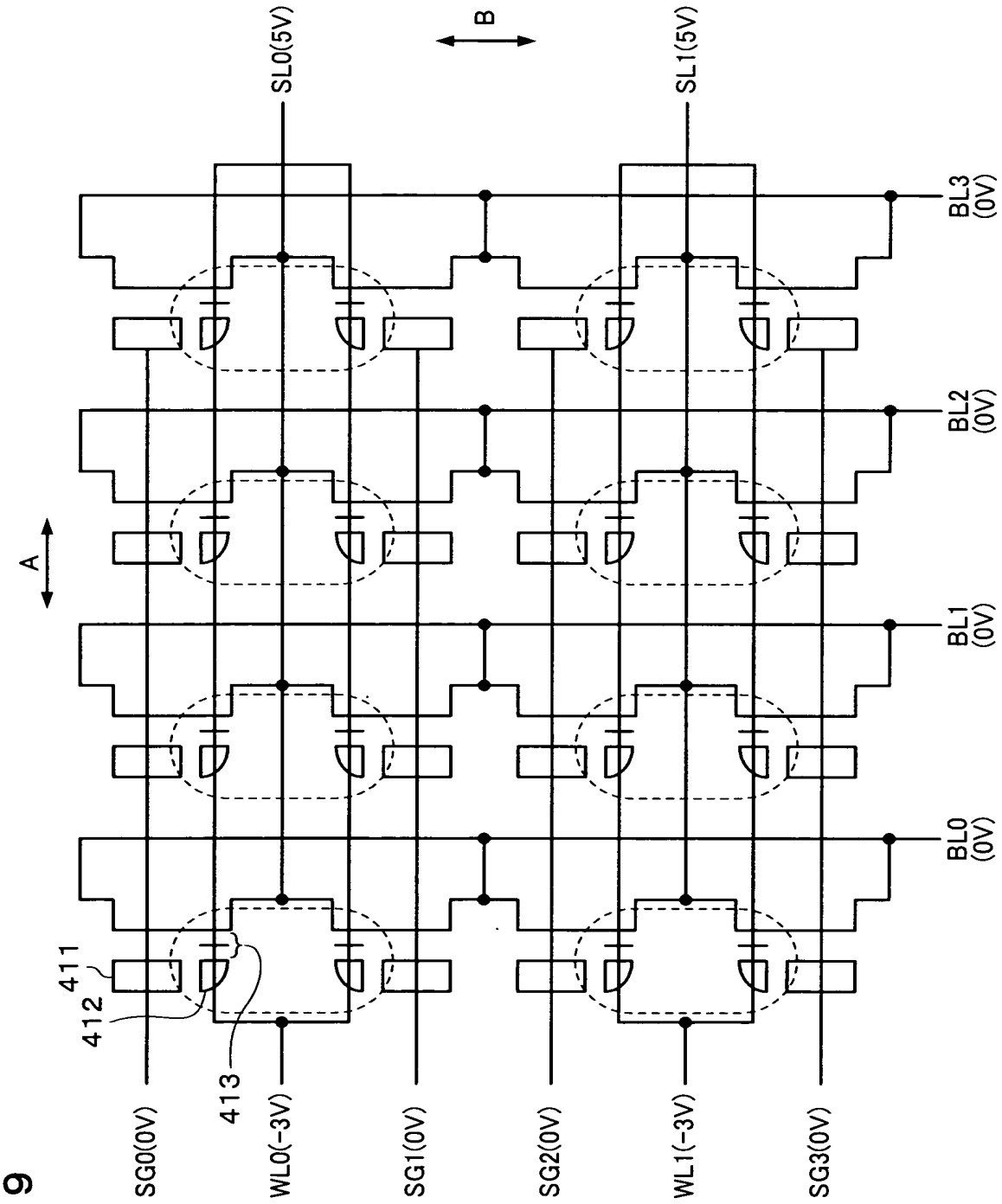

SL0(5V)
SL1(5V)
B
A
BL3 (0V)
BL2 (0V)
BL1 (0V)
BL0 (0V)
411
412
413
SG0(0V)
WL0(-3V)
SG1(0V)
SG2(0V)
WL1(-3V)
SG3(0V)

FIG. 10

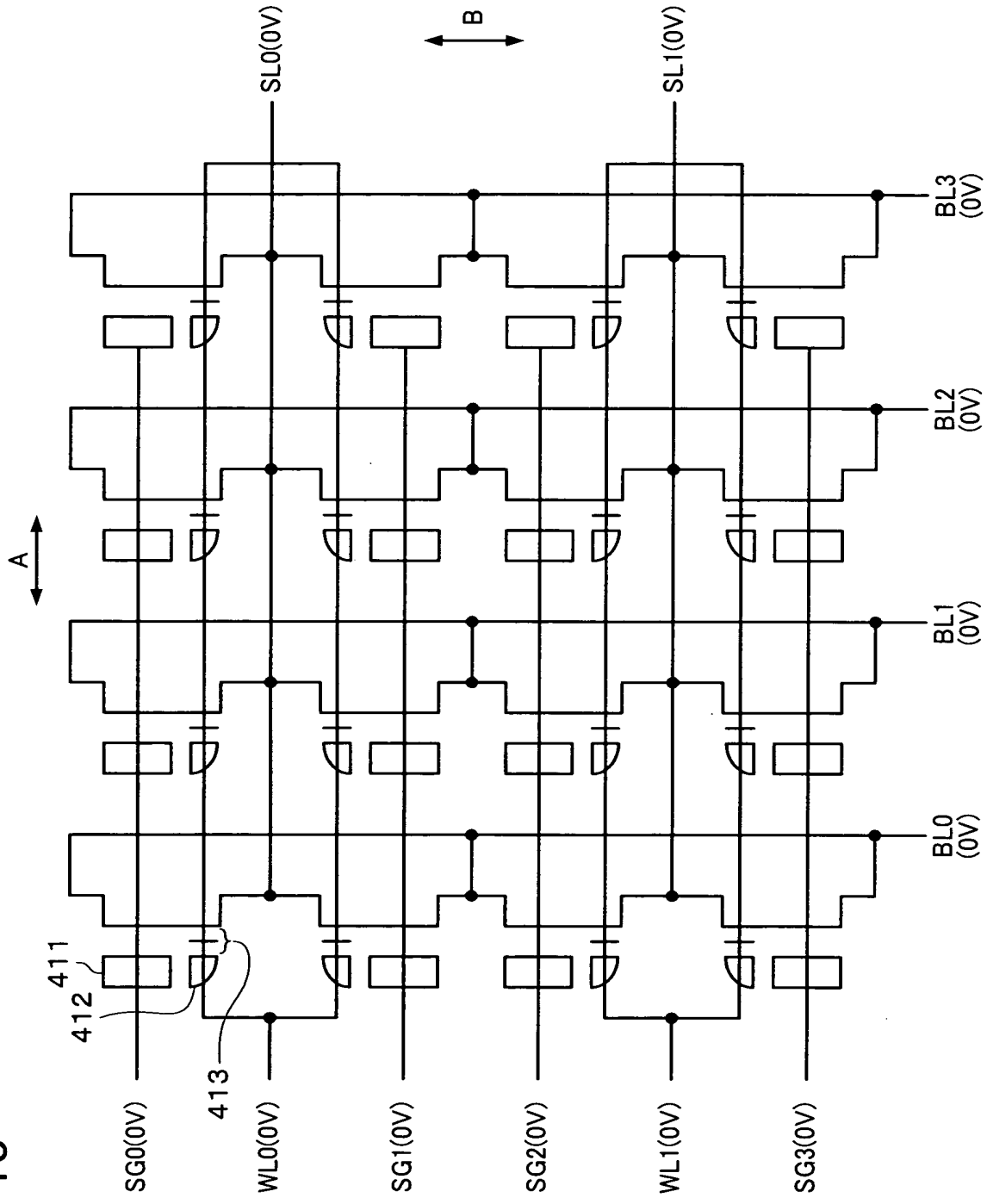

SL0(0V)
SL1(0V)
B
A
BL3 (0V)
BL2 (0V)
BL1 (0V)
BL0 (0V)
411
412
413
SG0(0V)
WL0(0V)
SG1(0V)
SG2(0V)
WL1(0V)
SG3(0V)

FIG. 11

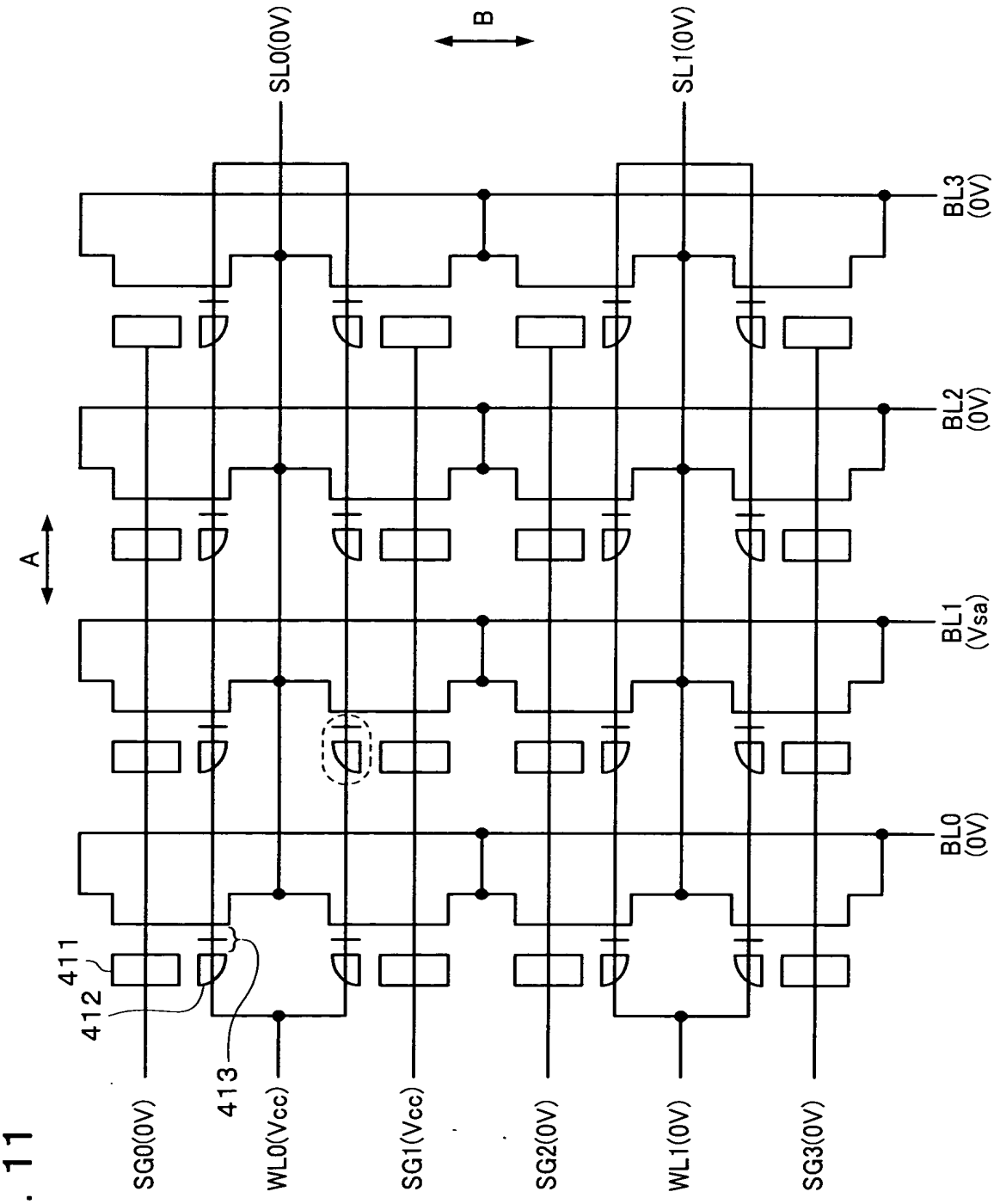

SL0(0V)
SL1(0V)
B
A
BL3 (0V)
BL2 (0V)
BL1 (Vsa)
BL0 (0V)
411
412
413
SG0(0V)
WL0(Vcc)
SG1(Vcc)
SG2(0V)
WL1(0V)
SG3(0V)

FIG. 12

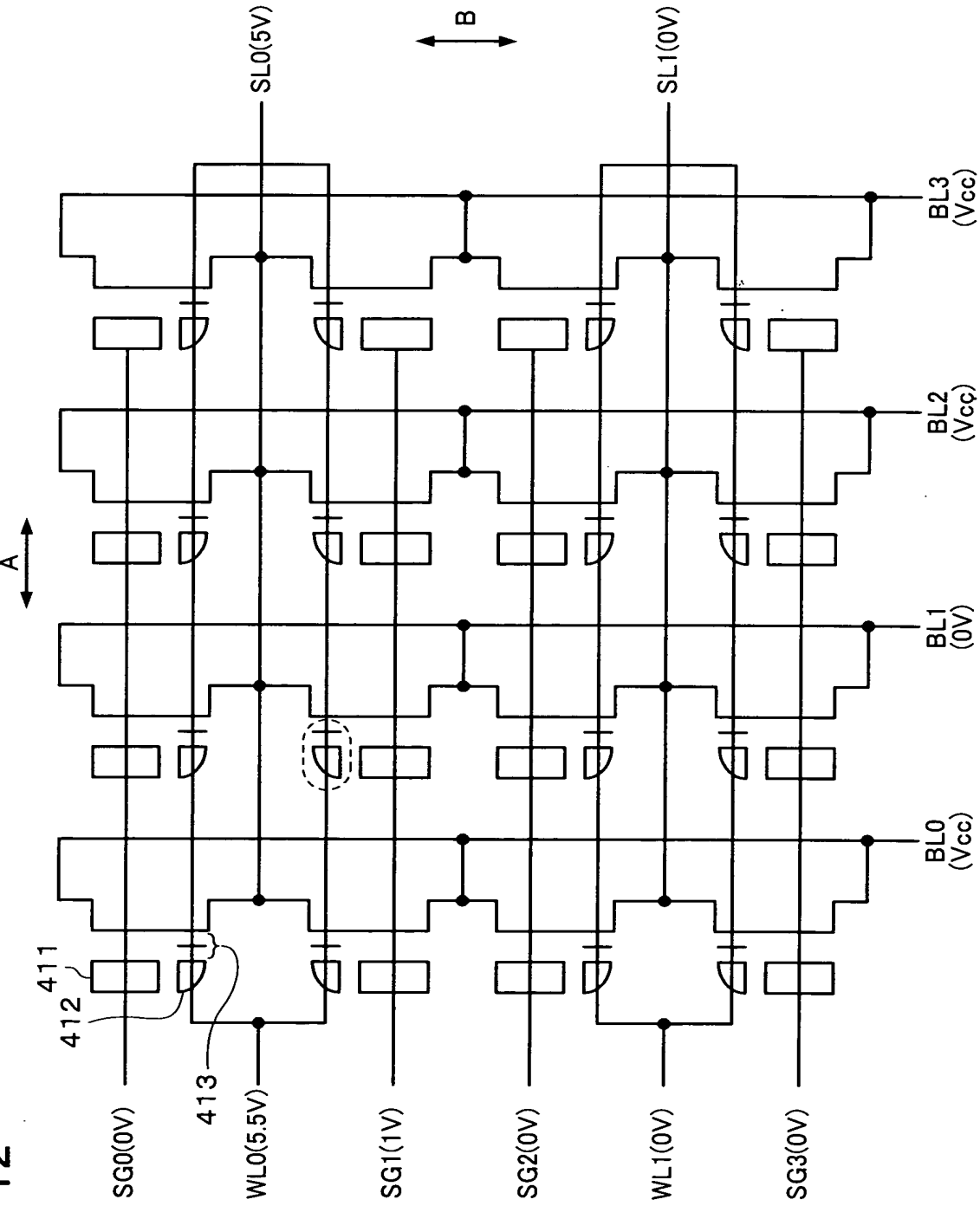

A
B
SL0(5V)
SL1(0V)
BL3 (Vcc)
BL2 (Vcc)
BL1 (0V)
BL0 (Vcc)
411
412
413
SG0(0V)
WL0(5.5V)
SG1(1V)
SG2(0V)
WL1(0V)
SG3(0V)

FIG. 13

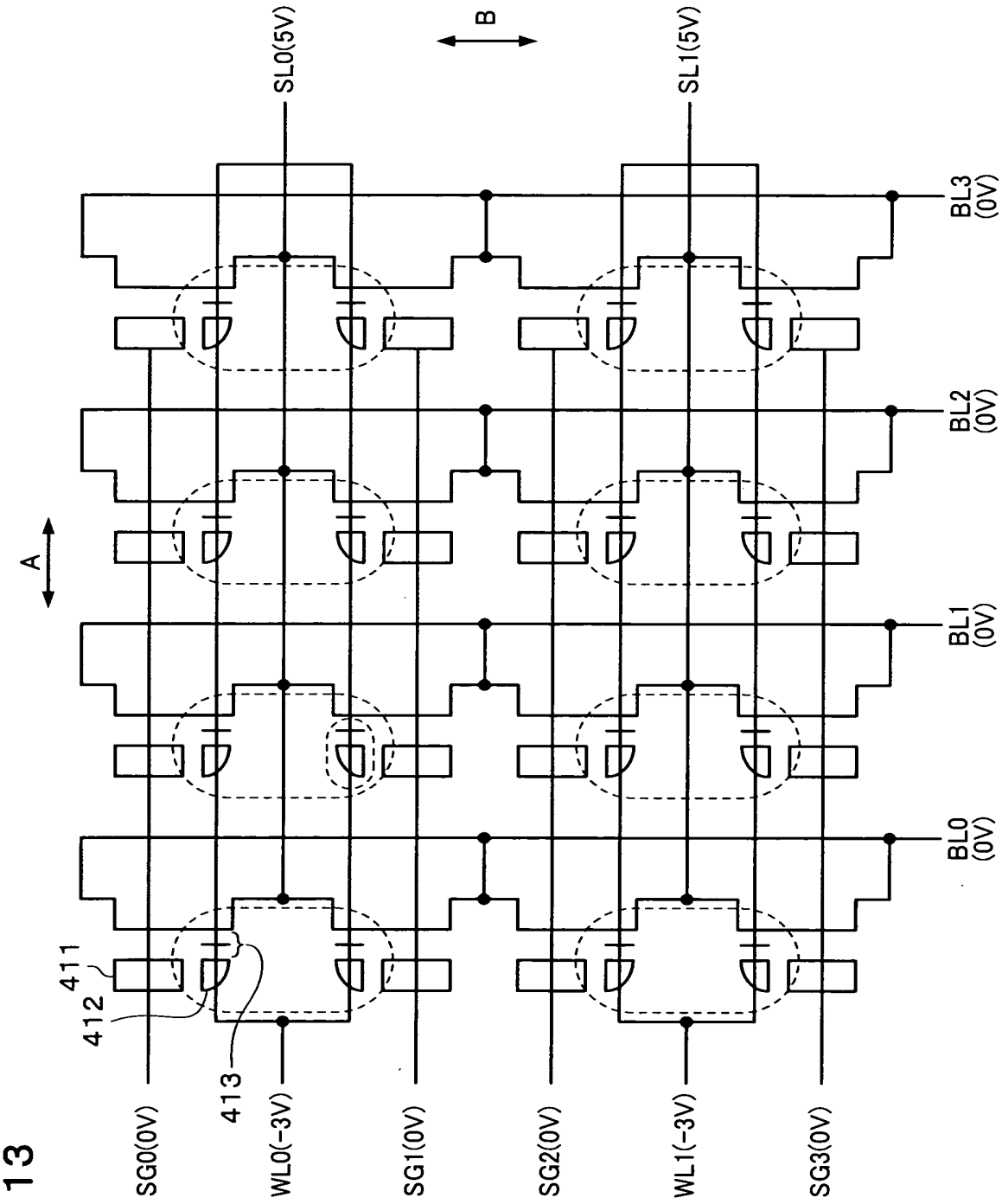

SL0(5V)
SL1(5V)
B
A
BL3 (0V)
BL2 (0V)
BL1 (0V)
BL0 (0V)
411
412
413
SG0(0V)
WL0(-3V)
SG1(0V)
SG2(0V)
WL1(-3V)
SG3(0V)

FIG. 14

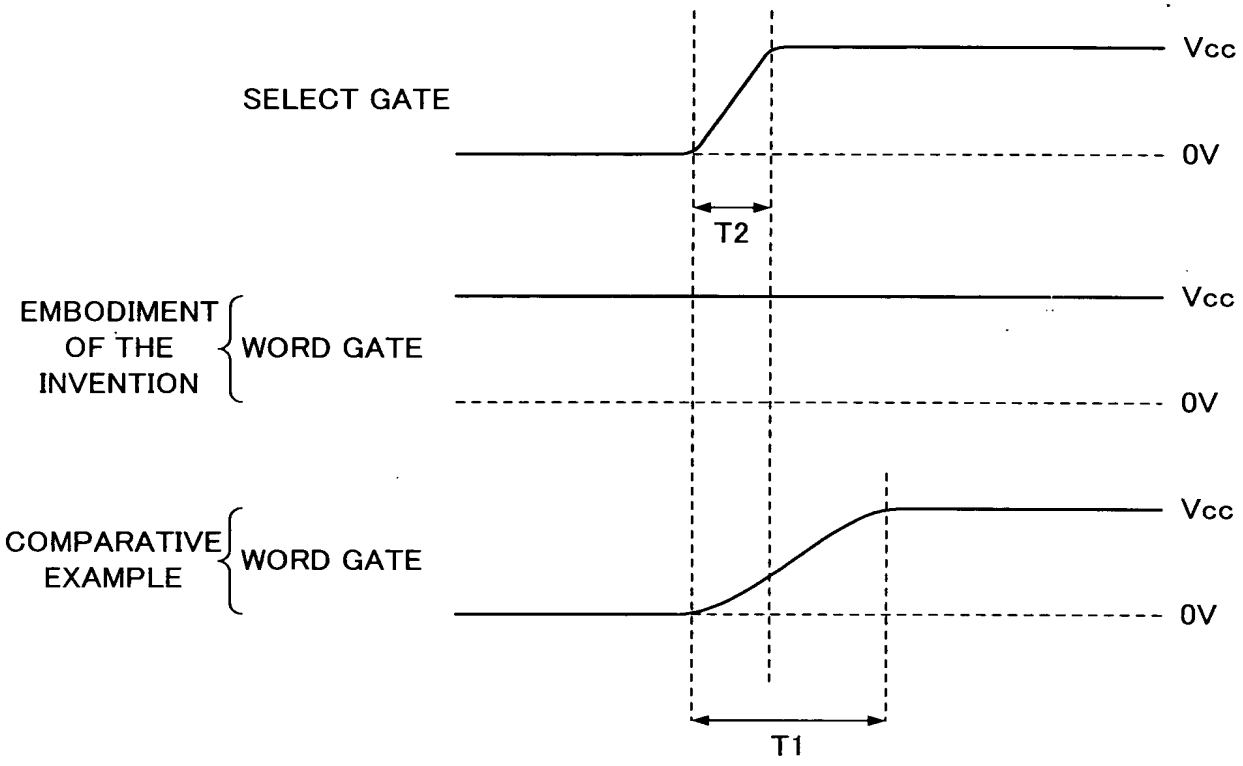
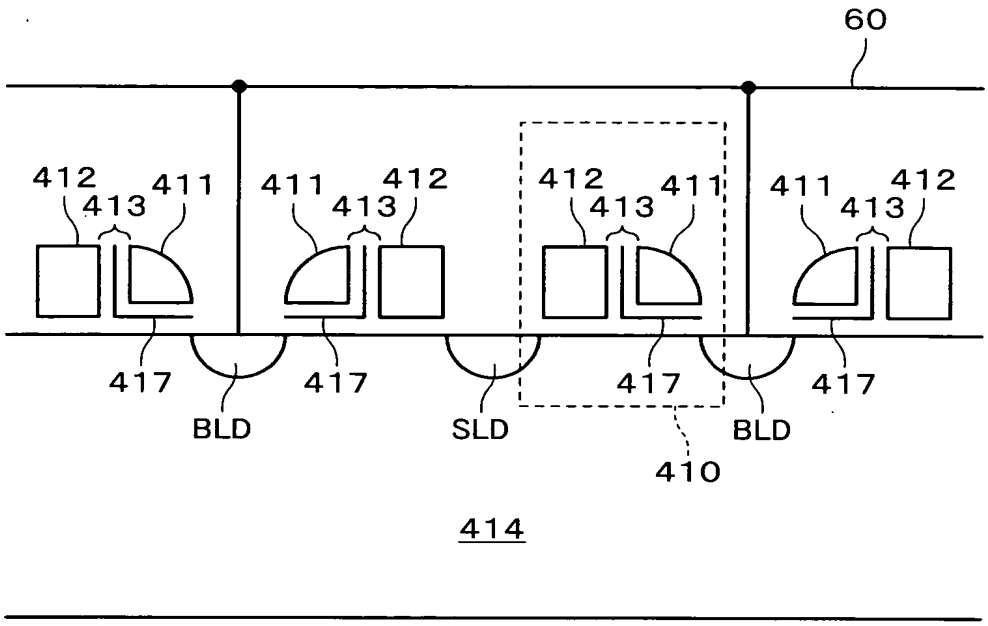

SELECT GATE
Vcc
0V
T2
EMBODIMENT OF THE INVENTION
WORD GATE
Vcc
0V
COMPARATIVE EXAMPLE
WORD GATE
Vcc
0V
T1

FIG. 15


60
412
413
411
411
413
412
412
413
411
411
413
412
417
417
417
417
BLD
SLD
BLD
410
414